

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: ink used to fill Brother LC3219XL Cyan reman cartridge

Supplier: Vow

Address: Sheffield Airport Business Park, Europa Link, Sheffield, S9 1 XU

Information Phone: 0114 256 6000

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No1272/2008

The product is not classified according to the CLP regulation.

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous materials

Special labelling of certain preparations:

Safety data sheet available for professional user on request.

Other hazards

Results of PBT and vPvB assessment

PBT: not applicable

VPvB: not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Name	Cas No	Content	CLP Classification
2, 2'-Oxybisethanol	111-46-6	5%	Acute Tox. 4, H302
1-methoxy-2-propanol	107-98-2	4%	Flam. Liq. 3, H226, Acute Tox. 4, H302 STOT SE 3, H336
2-(2-butoxyethoxy) ethanol	112-34-5	3%	Eye Irrit. 2, H319
Glycerol	56-81-5	substance with a community workplace exposure limit	
Butan-1-ol	71-36-3	2%	Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302 Skin Irrit. 2, H315 STOT SE 3, H335-H336
Butane-1, 4-diol	110-63-4	<2%	Acute Tox 4, H302

The full text for all R-phrases are displayed in Section 16

4. FIRST AID MEASURES

General information: no special measures required.

Skin contact: generally the product does not irritate the skin.

Eye contact: flush eyes thoroughly with water for 15 minutes. Seek medical attention if irritation persists.

Ingestion: seek medical attention if symptoms persist.

Inhalation: move the exposed person to fresh air. Seek medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters:

Protective equipment: no special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: not required.

Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.

Methods and materials for containment and cleaning up:

Clean-up procedures: absorb with liquid-binding material (sand, diatomite, sawdust). Send for recovery or disposal in suitable containers.

Reference to other sections: no dangerous substances are released.

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

Dispose contaminated material as waste according to section 13.

7. HANDLING AND STORAGE

Precautions for safe handling: no special measures required.

Information about protection against explosions and fires: no special measures required.

Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles: no special requirements.

Information about storage in one common storage facility: not required.

Further information about storage conditions: none.

Specific end use(s): no further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with limit values:

111-46-6 2,2-oxybisethanol

WEL\ Long term value: 101 mg/m³, 23 ppm

107-98-2 1-methoxy-2-propanol

WEL\ Short term value: 560 mg/m³, 150 ppm

Long term value: 375 mg/m³, 100 ppm

SK

112-34-5 2-(2-butoxyethoxy) ethanol

WEL\ Short term value: 101.2 mg/m³, 15 ppm

Long term value: 67.5 mg/m³, 10 ppm

56-81-5 glycerol

WEL\ Long term value: 10 mg/m³

71-36-3 butan-1-ol

WEL\ Short term value: 154 mg/m³, 50 ppm

SK

Exposure controls:

Personal protective equipment: not needed for normal usage

General protective and hygienic measures: not needed for normal usage
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General information

Appearance: liquid

Colour: Cyan.

Odour: characteristic

Odour threshold: not determined

pH value: 7.5

Change in condition

Melting point/freezing point: undetermined

Initial boiling point and boiling range: undetermined

Flash point: not applicable

Flammability (solid, gas): not applicable

Decomposition temperature: not determined

Auto ignition temperature: product is not self-igniting

Explosive properties: product does not present an explosion hazard

Explosion limits:

Lower: not determined

Upper: not determined

Vapour pressure: not determined

Density at 20°C: 1.04g/cm³

Relative density: not determined.

Vapour density: not determined

Evaporation rate: not determined

Solubility in water: fully miscible

10. STABILITY AND REACTIVITY

Reactivity: no further relevant information available.

Chemical stability: stable under normal conditions

Thermal decomposition / conditions to be avoided: no decomposition if used according to specifications.

Possibility of hazardous reactions: no dangerous reactions known.

Incompatible materials: no data is available on this product.

Haz. decomp. Products: no dangerous decompositions known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity based on available data, the class classification criteria are not met

Primary irritant effect:

Skin irritant: based on available data the classification criteria are not met.

Serious eye damage/irritation: based on available data the classification criteria are not met.

Respiratory or skin sensitisation: based on available data the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: based on available data the classification criteria are not met.

Carcinogenicity: based on available data the classification criteria are not met.

Reproductive toxicity: based on available data the classification criteria are not met.

STOT-single exposure: based on available data the classification criteria are not met.

STOT –repeated exposure: based on available data the classification criteria are not met.

Aspiration hazard: based on available data the classification criteria are not met.

Toxicological information: no data available

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: no further relevant information available

Persistence and degradability: no further relevant information available

Behavior in environmental systems:

Bio accumulative potential: no further relevant information available

Mobility in soil: no further relevant information available

Additional ecological information:

General notes: Water hazard class 1(German Regulation) (Self-assessment): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

Other adverse effects: no further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation: smaller quantities can be disposed of with household waste.

Packaging:

Recommendation: disposal must be made according to official regulations

Recommended cleansing agents: water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION

UN Number

ADR, AND, IMDG, IATA: void

UN proper shipping name

ADR, AND, IMDG, IATA: void

Transport hazard class(s)

ADR, AND, IMDG, IATA:

Class: void

Packaging group

ADR, IMDG, IATA: void

Environmental hazards:

Marine pollutant: no

Special precautions for user: not applicable

Transport in bulk according to annex 11 of Marpol and the IBC code: not applicable

UN "Model Regulation": void

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture.

Directive 2012/18/EU

Named dangerous substances – ANNEX 1 none of the ingredients listed

Chemical safety assessment: A chemical safety assessment has not been carried out

16. OTHER INFORMATION.

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product as contained within an inkjet cartridge and used according to normal usage, doesn't present environmental or health risks. The cartridge should not be treated in such a way as no ink spills into the environment without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of this product are outside the supplier's control, the user is responsible for ensuring that requirements of relevant legislation are complied with.

The information contained herein is for health and safety guidance only and does not constitute a specification. It is, to the best of our knowledge and belief, accurate. However since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the end user to comply with all applicable laws and regulations.

Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.